



SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: R. Bruce Wallace
- (ii) TITLE OF INVENTION: Ligation Amplification of Nucleic Acid Sequences
- (iii) NUMBER OF SEQUENCES: Fifteen
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: City of Hope
  - (B) STREET: 1500 East Duarte Road
  - (C) CITY: Duarte
  - (D) STATE: California
  - (E) COUNTRY: United States of America
  - (F) ZIP: 91010-0269
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: 3M Double Density 5 1/4" diskette
  - (B) COMPUTER: Wang PC
  - (C) OPERATING SYSTEM: MS-DOS (R) Version 3.30
  - (D) SOFTWARE: Microsoft (R)
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION: Unknown
- (vii) PRIOR APPLICATION DATA: None
  - (A) APPLICATION NUMBER: 07/870,221
  - (B) FILING DATE: 20 April 1992
  - (C) CLASSIFICATION: Unknown
  - (D) APPLICATION NUMBER: 07/178,377
  - (B) FILING DATE: 06 April 1988
  - (C) CLASSIFICATION: Unknown

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Irons, Edward S.
- (B) REGISTRATION NUMBER: 16,541
- (C) REFERENCE/DOCKET NUMBER: None

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (202) 785-6938
- (B) TELEFAX: (202) 785-5351
- (C) TELEX: 440087 LM WSH

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None

(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CGGCAGACTT CTCC

14

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8
- (B) TYPE: Oligonucleotide

(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
TCAGGAGT 8

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 6  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
TCAGGA 6

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None

(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ACAGGAGT

8

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
ACAGGA 6

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 14  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
CACCTGACTC CTGA 14

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 14  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
CACCTGACTC CTGT 14

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 8  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
GGAGAAGT 8

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 6

(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Singl Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
GGAGAA 6

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 19  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CTCCTGAGGA GAAGTCTGC 19

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19

(B) TYPE: Oligonucleotide

(C) STRANDEDNESS: Single Stranded

(D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None

(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

CTCCTGTGGA GAAGTCTGC 19

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23

(B) TYPE: Oligonucleotide

(C) STRANDEDNESS: Single Stranded

(D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable



(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
CGGCAGACTT CTCCTCAGGA GTC 23

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 23  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded  
(D) TOPOLOGY: Linear  
(ii) MOLECULE TYPE: Not Applicable  
(iii) HYPOTHETICAL: Not Applicable  
(iv) ANTI-SENSE: Not Applicable  
(v) FRAGMENT TYPE: Not Applicable  
(vi) ORIGINAL SOURCE: Synthetically Prepared  
(vii) IMMEDIATE SOURCE: Synthetically Prepared  
(viii) POSITION IN GENOME: None  
(ix) FEATURE: None  
(x) PUBLICATION INFORMATION: None  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
CGGCAGACTT CTCCACAGGA GTC 23

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 14  
(B) TYPE: Oligonucleotide  
(C) STRANDEDNESS: Single Stranded

(D) TOPOLOGY: Linear

- (ii) MOLECULE TYPE: Not Applicable
- (iii) HYPOTHETICAL: Not Applicable
- (iv) ANTI-SENSE: Not Applicable
- (v) FRAGMENT TYPE: Not Applicable
- (vi) ORIGINAL SOURCE: Synthetically Prepared
- (vii) IMMEDIATE SOURCE: Synthetically Prepared
- (viii) POSITION IN GENOME: None
- (ix) FEATURE: None
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
CCTCTTCAGA CGGC 14

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 8
  - (B) TYPE: Oligonucleotide
  - (C) STRANDEDNESS: Single Stranded
  - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Not Applicable
- (iii) HYPOTHETICAL: Not Applicable
- (iv) ANTI-SENSE: Not Applicable
- (v) FRAGMENT TYPE: Not Applicable
- (vi) ORIGINAL SOURCE: Synthetically Prepared
- (vii) IMMEDIATE SOURCE: Synthetically Prepared
- (viii) POSITION IN GENOME: None
- (ix) FEATURE: None
- (x) PUBLICATION INFORMATION: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
TGAGGACT 8